

U.S. Weather bureau.

# MONTHLY WEATHER REVIEW,

SEPTEMBER, 1872.

WAR DEPARTMENT,

Office of the Chief Signal Officer,

DIVISION OF

TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

## STORMS.

During this month thirteen storm-centres have traversed portions of the country east of the Rocky Mountains. Of these barometric depressions eight have pursued an irregular course from Montana eastward over the Lake region into Canada or to New England and the eastern British provinces; two have moved from Texas and Indian Territory northeastward over the upper lakes into Canada; one slight depression has existed on the coasts of Georgia and South Carolina, while the disturbing influence of two other storms, which were apparently central at some distance from the coast, has been slightly felt along the Atlantic seaboard from the Carolinas to New England. Brisk and high winds, increasing occasionally to gales, have attended the progress over the Lake region of several of these storm-centres, and thirty-two cautionary signals have been displayed at the various lake stations during the month.

## RAINFALL.

The returns from the Signal Service stations show that there has been, during this month, a deficiency of rain, averaging about one and a half inches, over the lower lake region, also, central Indiana, and interior portions of Virginia, the Carolinas, and Georgia, while a deficiency, varying from one and three-fourths inches to nearly four inches is exhibited in the Gulf states, Dakota, and western Minnesota. About the usual quantity has fallen in Maine and northern New Jersey, but elsewhere on the Atlantic coast the figures show an excess. This surplus over the mean for the month amounts to 4.13 inches at Jacksonville, Fla.; 4.15 inches at New London, Conn.; and 2.89 inches at Boston; in Maryland and on the coasts of Virginia and the Carolinas it varies from one to two inches. An excess of about one inch has fallen in the lower Ohio and lower Missouri valleys and also in the Mississippi valley between Memphis and Davenport and the adjacent country, but over the upper lake region and in eastern Minnesota the reports show an excess varying from three to six inches.

## TEMPERATURE.

The mean temperatures for this month vary but little in the Southern states from the means for September, as ascertained by a long series of observations. In the eastern and middle states and throughout the Lake region, excepting western Lake Superior, the temperature has been higher than usual, exceeding the mean for the month by 3°.3 at Washington; 3°.7 at Philadelphia; 2°.6 at Portland, Me.; 4° at Buffalo; 2°.5 at Oswego, Cleveland, Toledo, and Detroit, and 3°.9 at Chicago. The figures show that the month has been somewhat cooler than usual over the country extending from Minnesota and Iowa westward to the Rocky Mountains, except in eastern Tennessee, or the eastern shore of Lake Michigan, and from Minnesota and Iowa westward to the Rocky Mountains the mean temperatures for this month are higher than those for September, 1871, by an average of 4°, while in Virginia, Maryland, and western New York this difference is about 6°.

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